

305 TASK B GUIDE

Unit 305 Task B

Understand the Structure and Function of the Main Animal Tissue Types

What Is This Task About?

For this assignment you will identify the four main animal tissue types and explain their structure and function.

You will examine tissue specimens or images provided by your assessor and identify whether they are epithelial, connective, nervous or muscle tissue.

You will then explain the structure of each tissue and describe what it does within the body.

Assessment Criteria

You will need to:

2.1 Categorise different tissue types

2.2 Explain the structure of the main tissue types

2.3 Explain the function of the main tissue types

What You Need To Produce

You must:

✓ Correctly identify each tissue type provided

✓ Describe the structure of each tissue

✓ Explain the function of each tissue

✓ Link the structure of the tissue to its function

The Four Main Tissue Types

Epithelial Tissue

Found in:

- Skin
- Linings of organs
- Digestive system

Main function:

- Protection
- Absorption
- Secretion

Muscle Tissue

Found in:

- Skeletal muscles
- Heart
- Internal organs

Main function:

- Movement
- Posture
- Heat production

Connective Tissue

Found in:

- Bone
- Cartilage
- Blood
- Fat

Main function:

- Support
- Protection
- Binding tissues together

Nervous Tissue

Found in:

- Brain
- Spinal cord
- Nerves

Main function:

- Carries messages around the body

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How To Achieve A Pass

To achieve a Pass you must:

- ✓ Correctly identify each tissue type
- ✓ Describe at least one structural feature of each tissue
- ✓ Describe at least one function of each tissue

How To Achieve A Merit

To achieve a Merit you must do everything required for a Pass plus:

- ✓ Describe more than one structural feature of each tissue
- ✓ Describe more than one function of each tissue
- ✓ Use correct scientific terminology
- ✓ Show a good understanding of how tissues work within the body

How To Achieve A Distinction

To achieve a Distinction you must do everything required for a Merit plus:

- ✓ Clearly explain how the structure of each tissue helps it carry out its function
- ✓ Give detailed and accurate explanations
- ✓ Make clear links between tissue structure and tissue function
- ✓ Demonstrate excellent biological understanding throughout your work